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Cat. No. 13-1288

OWNER'S MANUAL

Please read before using this equipment.

SYSTEM 741

Mini Stereo Component System

OPTIMUS®

FEATURES

Your Optimus System 741 Mini Stereo Component System offers all of the versatile features you need for excellent stereo sound and entertainment in one compact package. The System 741 includes an AM/FM stereo tuner, 3-band frequency equalizer, CD player with a 21-track programmable memory, dual cassette recorder with auto-stop, and two speakers.

SYSTEM FEATURES

E-Bass Control — boosts low frequency sounds for an emphasized bass sound.

3-Band Frequency Equalizer — lets you adjust the sound to match your listening area's unique acoustics.

Auxiliary Inputs — let you play an auxiliary audio source through your system.

Supplied Speakers — let you immediately begin listening to your system's sound.

Headphone Jack — lets you privately listen to your system.

CD PLAYER FEATURES

Skip Search — lets you quickly skip through a CD's tracks so you can locate a particular one.

Audible Search — lets you quickly play any track on a CD (forward or backward) so you can locate a desired section.

Programmable Play — lets you program and play up to 21 tracks in any order.

Random Play — lets you play a CD's tracks in random order.

Repeat Play — lets you automatically repeat a single track, all tracks on the CD, or a programmed sequence of tracks.

3- or 5-Inch CD Compatible — lets you play either 3- or 5-inch CDs on the System 741.

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RadioShack is a trademark used by Tandy Corporation.

CASSETTE PLAYER FEATURES

Auto-Stop — automatically stops the cassette tape when it finishes to protect the tape and tape-handling parts.

Multiple Source Recording — lets you record from the CD player, radio, or an external audio source (such as another cassette tape or CD player).

Mixed Recording — lets you record onto a cassette tape while you talk into a microphone and play prerecorded music from the other cassette deck.

Automatic Level Control (ALC) — automatically adjusts the recording level.

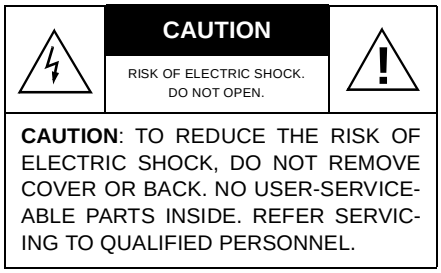
Consecutive Tape Play — plays one side each of two tapes, back to back.

Normal or High-Speed Dubbing — lets you copy tapes at normal or twice the normal speed.

Note: Most material on compact discs and prerecorded tapes is copyrighted. Unauthorized duplication of copyrighted material is a violation of the copyright laws of most countries and such duplication may result in fines and/or imprisonment. Note, however, that in the United States, it is not a violation of U.S. copyright laws for a consumer to use an audio recording device to duplicate musical recordings for noncommercial (personal) use.

Warning: This system employs a laser light beam. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

Warning: To prevent fire or shock hazard, do not expose this music system to rain or moisture.



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the music system's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the music system's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this music system.

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CONNECTIONS

Note: Complete all other connections to the System 741 before you connect it to power.

CONNECTING THE SPEAKERS

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1. Press open the pair of terminal tabs marked **SPEAKER/R** (right) on the back of the System 741.
2. Insert one speaker's red wire into the red (+) terminal and its black wire into the black (–) terminal and release the tabs to close the terminals.
3. Repeat Steps 1 and 2 to connect the other speaker's wires to the terminals marked **SPEAKER/L** (left).

CONNECTING AN EXTERNAL AUDIO SOURCE

You can connect an external audio source to your System 741, such as a TV, CD player, or cassette deck, so you can listen to that source through the System 741.

Plug the audio source's left and right line level audio wires into the **AUX L** (left, white) and **R** (right, red) input jacks on the back of the System 741.

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To operate an external audio source with the System 741, see "Using an External Audio Source" on Page 20.

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CONNECTING AN EXTERNAL ANTENNA

Your System 741 has two built-in antennas. The AM antenna is internal, and the power cord serves as the FM antenna.

For improved reception, you can attach an external FM or VHF TV antenna (not supplied) to the 75-ohm or 300-ohm terminals on the back of the system.

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Note: If you use an outside VHF TV antenna, you can use a signal splitter to connect your radio and TV to the same antenna.

Your local RadioShack store has a wide selection of antennas, splitters, and connectors.

CONNECTING POWER

After making all other connections, plug your system's AC power cord into a standard AC outlet.

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Caution: Your system's power cord has a polarized plug (one blade is wider than the other). If you have difficulty inserting the plug into the outlet, do not force it. Turn the plug over and try again.

Note: If you are not connecting an external antenna, make sure the system's power cord is fully extended.

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CONNECTING HEADPHONES

To listen privately, you can connect a pair of stereo headphones with a 1/8-inch plug (not supplied). Your local RadioShack store has a wide selection of stereo headphones.

To connect headphones, plug the headphones into the **PHONES** jack on the front panel.

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Note: Connecting headphones automatically disconnects the System 741's speakers.

Listening Safely

To protect your hearing, follow these guidelines when you use headphones.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable listening level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

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BASIC OPERATION

TURNING ON/OFF THE SYSTEM

To turn on the system, simply press **POWER**. The POWER indicator lights.

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To turn off the system, press **POWER** again. The POWER indicator turns off.

ADJUSTING THE BALANCE

To adjust the sound balance between the left and right speakers, turn **BALANCE** toward **L** (left) or **R** (right).

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USING THE 3-BAND FREQUENCY EQUALIZER

You can use the **3-BAND FREQUENCY EQUALIZER** to customize the sound you hear through the speakers. Each of the three slide controls lets you adjust the sound level in a specific frequency range.

Slide the control up to boost or down to reduce the level. The selected frequency range is not changed if you set the control to the center position (**0**).

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LOW (100 Hz) — Adjusts the frequencies in the low bass range (low organ notes and bass drums). Reduces rumble or other low-frequency noise.

MID (1 kHz) — Adjusts the range of frequencies where the ear is most sensitive (vocals).

HIGH (10 kHz) — Adjusts high frequency sounds (cymbals, flutes, and violins).

USING E-BASS

Press **E-BASS** to the in position for enhanced bass sound. The E-BASS indicator lights.

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Press **E-BASS** to the out position for normal bass sound.

RADIO OPERATION

1. Press **TUNER**. The TUNER indicator lights.

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2. Set **BAND** to **AM** or **FM**.

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3. Adjust **TUNING** to the desired station.

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- For the best AM reception, simply change the position of the system.
- For the best FM reception, fully uncoil the power cord or connect an external FM antenna.

4. Set **MONO/STEREO** for the desired sound.

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Notes:

- If FM reception is strong, set **MONO/STEREO** to **STEREO** to receive the signal in stereo. The FM STEREO indicator lights when you receive an FM broadcast in stereo.

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- If FM stereo reception is weak, set **MONO/STEREO** to **MONO**. The sound is monaural, but the reception should improve.

5. Adjust **VOLUME**, **BALANCE**, and the **3-BAND FREQUENCY EQUALIZER** for the desired sound.
6. Press **E-BASS** to boost low frequency sounds for an emphasized bass sound.

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CD PLAYER OPERATION

LOADING AND PLAYING A CD

1. Press **CD**. The CD indicator lights, 00 appears briefly, then **dISC** appears on the display.

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2. Press **OPEN/CLOSE**. **OPEN** appears on the display, and the CD compartment opens.

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3. Carefully place a CD in the compartment with the label facing up.

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4. Press **OPEN/CLOSE** to close the CD compartment. The display temporarily shows **00**, then shows the CD's total number of tracks and total playing time.

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Caution: Never force the CD compartment door to close. You might damage the CD player's loading mechanism or the CD.

5. Press **PLAY/PAUSE** to begin play. Track number **01** and the elapsed play time appear on the display. The CD player plays all the tracks in order.

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Note: Press **PLAY/PAUSE** to stop the CD temporarily. ▮▮ appears on the display. Press **PLAY/PAUSE** again to play the CD. ▮▮ disappears.

6. Adjust **VOLUME**, **BALANCE**, and the **3-BAND FREQUENCY EQUALIZER** for the desired sound.

7. Press **E-BASS** to boost low frequency sounds for an emphasized bass sound.

8. The CD automatically stops when it reaches the end. Press **STOP** to stop playing the CD before it automatically stops.

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SPECIAL CD PLAYER FEATURES

Skip Search

You can skip forward or backward through the tracks on a CD or tracks in a programmed sequence to quickly find a desired track.

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- To skip to the beginning of the next track during play, press and release **SKIP/SEARCH ►►I**.
- To return to the beginning of the current track during play, press and release **I◄◄ SKIP/SEARCH**.
- To skip forward or backward to additional tracks, repeatedly press **SKIP/SEARCH ►►I** or **I◄◄ SKIP/SEARCH** until the desired track number appears on the display.

Notes:

- If you press **I◄◄ SKIP/SEARCH** while the first track is playing, the first track replays.
- If you press **SKIP/SEARCH ►►I** while the last track is playing, it has no effect.

Audible Search

To search forward or backward during play, press and hold down **SKIP/ SEARCH ►►I** or **I◄◄ SKIP/ SEARCH**. The CD plays rapidly and you hear the music at a higher speed but lower volume.

Release the button to resume normal play.

Storing/Playing a Programmed Sequence

You can program the CD player to play up to 21 tracks in any order you choose, and you can program the same track to play more than once.

1. While the CD player is stopped, press **PROGRAM**. The display shows **`00 P: 01`** (memory location 1).

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2. Press **SKIP/SEARCH ►►I** or **I◄◄ SKIP/SEARCH** to find the track you want to program into memory location 1.

3. Press **PROGRAM** again to store the track in the current memory location. The next memory location appears.

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4. Repeat Steps 2–3 for each track you want to program.

   Note: If you program more than 21 tracks, the additional tracks replace the currently programmed tracks.

5. Press **PLAY/PAUSE**. **PGM** appears on the display and the CD player plays the tracks in the order you programmed.

Notes:

- Press **PLAY/PAUSE** to temporarily stop the music. Press **PLAY/PAUSE** again to resume play.
- Press **SKIP/SEARCH** ►►I and I◄◄ **SKIP/SEARCH** to move through the programmed sequence during play.

Programmed play automatically stops at the end of the last programmed track.

To stop the CD player at any time during programmed play, press **STOP**. The CD's total number of tracks and playing time appear.

Note: To play the programmed sequence again, press **PROGRAM** then **PLAY/PAUSE**.

Reviewing a Programmed Sequence

To review a programmed sequence, while play is stopped, repeatedly press **PROGRAM**. The track number and memory position number of each stored track appear on the display.

Editing a Programmed Sequence

To edit the programmed sequence, repeatedly press **PROGRAM** until the stored track you want to change appears on the display.

Press **SKIP/SEARCH** ►►I or I◄◄ **SKIP/SEARCH** until the new track appears on the display, then press **PROGRAM** to store the new track in place of the old one.

Erasing a Programmed Sequence

To erase a programmed sequence, you can press **OPEN/CLOSE** or **POWER** before, during, or after programmed play.

Random Play

You can set the CD player to play a CD's tracks in random order.

1. Before or during play, press **RANDOM** so **RND** appears on the display.

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2. If necessary, press **PLAY/PAUSE** to begin random play. The CD player randomly selects and plays all the tracks on the CD once, then automatically stops.

   Note: If you select **RANDOM** while a track is playing, the CD player plays the track to the end, then randomly selects and plays all the tracks on the CD once.

3. To stop the CD player at any time during random play, simply press **STOP**.

Notes:

- The currently selected track number and its elapsed play time appear as the CD plays.
- To skip to the next randomly selected track, press **SKIP/ SEARCH** ►►I.
- During random play, you can use ►►I to advance to the next randomly selected track, use I◄◄ to return to the beginning of the current track, or repeat the current track (see "Repeat" below).

To cancel random play and resume normal play without stopping, simply press **RANDOM**. **RND** disappears from the display and the CD player resumes normal play.

Cue

To start playing a CD from a desired track, before you begin play or during pause, repeatedly press **SKIP/ SEARCH** ►►I or I◄◄ **SKIP/SEARCH** until the desired track number appears on the display. Then press **PLAY/ PAUSE** to play the track.

Repeat

You can continuously repeat a single track, all the tracks on a CD, or an entire programmed sequence of tracks (see "Storing/Playing a Programmed Sequence" on Page 12).

To continuously repeat a single track, press **REPEAT** before or during play. **REP 1** appears on the display.

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To continuously repeat all tracks on the CD, press **REPEAT** twice before or during play. **REP** appears on the display.

To continuously repeat an entire programmed sequence, first program the tracks you want to play, then press **REPEAT** twice before or during play. **REP** appears on the display.

To cancel repeat play during or after play, repeatedly press **REPEAT** until **REP 1** and **REP** disappear from the display. If repeat is cancelled during play, the CD player resumes normal play.

Note: Pressing **STOP** cancels repeat play.

Time Display

While a track is playing, the display shows the current track's number and the elapsed playing time since the track began playing.

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Press **TIME** once to display the current track's remaining playing time.

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Press **TIME** twice to display the CD's total remaining playing time.

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Press **TIME** three times to return to the original display.

CASSETTE DECK OPERATION

You can play one side of a cassette tape in either TAPE 1 or TAPE 2 and you can record tapes in TAPE 2.

LOADING AND PLAYING A CASSETTE TAPE

Notes:

- We recommend C-30, C-60, and C-90 tapes. Avoid using C-120 tapes because they are thin and can easily get tangled in tape mechanisms.
- Before playing or recording any cassette tape, take up any slack in the tape by turning one of the cassette's hubs with a pencil. If you do not remove excess slack, the tape might become tangled in the record/playback mechanism.

1. Press **TAPE**. The TAPE indicator lights.

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2. Open either cassette compartment by pressing **STOP/EJECT**.

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3. Load the cassette with the open edge down, the full reel on the left, and the side you want to play facing you.

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4. Close the cassette compartment door until it clicks.
5. Press **PLAY**.

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Note: Press **PAUSE** to temporarily stop tape play. To resume play, press **PAUSE** again.

6. Adjust **VOLUME**, **BALANCE**, and the **3-BAND FREQUENCY EQUALIZER** for the desired sound.
7. Press **E-BASS** to boost low frequency sounds for an emphasized bass sound.
8. The cassette stops automatically when it reaches the end. Press **STOP/EJECT** to stop tape play sooner.

Note: When the tape ends, turn it over to listen to the other side.

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Using Fast Forward/Rewind

Press **FAST-F** to fast-forward or **REWIND** to rewind the cassette. To stop fast forward or rewind before the end of the tape, simply press **STOP/EJECT**.

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Using Consecutive Play

You can play one side of a cassette in TAPE 1, then immediately play one side of a cassette in TAPE 2.

1. Load the cassette you want to play first into TAPE 1 and the one you want to play second into TAPE 2.

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2. Press **PLAY** on TAPE 1. The cassette in TAPE 1 plays.
3. Press **PAUSE** then **PLAY** on TAPE 2. When TAPE 1 reaches the end, the cassette in TAPE 2 plays.

The tape player automatically stops when the cassette in TAPE 2 reaches end.

To stop consecutive play before the tape player automatically stops, press **STOP/EJECT** on both decks.

DUBBING AND RECORDING

You can use the System 741 to dub (copy) another tape, or record from the radio, CD player, or an external audio source (see “Recording from an External Audio Source” on Page 20).

Notes:

- The **VOLUME**, **E-BASS**, **BALANCE**, and **3-BAND FREQUENCY EQUALIZER** settings do not affect your recordings. The system automatically adjusts those levels.
- To record on a cassette, its erase-protection tabs must be in place (see “Preventing Accidental Recording” on Page 23).

Dubbing a Cassette Tape

You can dub at the tape's normal playing speed or at twice the normal speed. If you dub at normal speed, you can listen as you record.

1. Press **TAPE**.
2. Load the pre-recorded cassette you want to record from into TAPE 1. Be sure the side you want to record from is facing you.
3. Load a blank cassette (or one you want to record over) into TAPE 2 with the side you want to record on facing you.
4. Set **DUBBING** to **NORMAL** or **HIGH**.

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- Set **DUBBING** to **NORMAL** to dub at normal speed. This produces the highest quality results.
- Set **DUBBING** to **HIGH** to dub at approximately twice the normal speed. This produces the fastest results, but the quality is slightly reduced.

5. Press **PAUSE** and **RECORD** on TAPE 2. Both **PAUSE** and **RECORD** lock down.
6. Press **PLAY** on TAPE 1. TAPE 1 begins playback, **PAUSE** releases on TAPE 2, and dubbing begins.

Notes:

- To skip an unwanted section on TAPE 1, press **PAUSE** on TAPE 2 while the unwanted section plays. To resume dubbing, press **PAUSE** again.
- To monitor the tape you are copying, adjust **VOLUME**.

Dubbing automatically stops when the cassette in TAPE 2 reaches its end.

If the cassette in TAPE 1 continues to play, press **STOP/EJECT**. To stop dubbing before TAPE 2 stops automatically, press **STOP/EJECT** on both cassette compartments.

Recording from the Radio or CD Player

Press **TUNER** and tune to the desired station, or press **CD** and load the desired CD.

Insert a cassette you want to record onto into TAPE 2, then press **PAUSE** and **RECORD**. When the desired selection on the radio or CD player plays, release **PAUSE**.

Note: Sometimes AM broadcasts produce a hum or whistling sound that you can hear while listening to a recording from the radio. To eliminate or reduce this sound, set **BEAT CUT** on the back of the system to the position that gives you the best quality recording.

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Making a Mixed Recording

You can connect a microphone with a 1/8-inch plug into the **MIC** jack so you can record on TAPE 2 while you speak into the microphone and play a pre-recorded tape in TAPE 1. Your local RadioShack store carries a wide selection of microphones.

1. Press **TAPE**. The TAPE indicator lights.
2. Load the pre-recorded cassette you want to record from into TAPE 1. Be sure the side you want to record from is facing you.
3. Load a blank cassette (or one you want to record over) into TAPE 2 with the side you want to record on facing you.
4. Insert the microphone into the **MIC** jack.
5. Press **PAUSE** and **RECORD** on TAPE 2.
6. When you are ready to record, press **PLAY** on TAPE 1.

   You can sing or speak along with the cassette playing in TAPE 1. Your voice and the music will be mixed and recorded on the cassette in TAPE 2.

   Note: To avoid feedback, adjust **VOLUME**.

Recording stops automatically when the cassette in TAPE 2 ends, or you can press **STOP/EJECT** on TAPE 1 or TAPE 2 to stop recording at any time.

USING AN EXTERNAL AUDIO SOURCE

If you connected an external audio source, such as a TV, VCR, or an external CD player or cassette deck, you can use your System 741 to listen to or record audio from that source.

LISTENING TO AN EXTERNAL AUDIO SOURCE

1. Turn **VOLUME** to **MIN**, and make sure the external audio source's volume control (if any) is also set to its lowest level.
2. Press **AUX**. The AUX indicator lights.

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3. Start playback on the external audio source.
4. Adjust **VOLUME**, **BALANCE**, and the **3-BAND FREQUENCY EQUALIZER** for the desired sound.
5. Press **E-BASS** to boost low frequency sounds for an emphasized bass sound.

RECORDING FROM AN EXTERNAL AUDIO SOURCE

Note: The **VOLUME**, **E-BASS**, **BALANCE**, and **3-BAND FREQUENCY EQUALIZER** settings do not affect your recordings. The system automatically adjusts those levels.

1. Turn **VOLUME** to **MIN**, and make sure the external audio source's volume control (if any) is also set to its lowest level.
2. Press **AUX**. The AUX indicator lights.
3. Insert a cassette you want to record on into TAPE 2.
4. Press **RECORD** to begin recording.
5. Start playback on the external audio source.

   Note: To pause the tape during recording, press **PAUSE**. To resume recording, press **PAUSE** again.
6. To stop the tape at any time during recording, press **STOP/EJECT**.
7. Stop playback on the external audio source.

CARE AND MAINTENANCE

Your Optimus System 741 Mini Stereo Component System is an example of superior design and craftsmanship. The following suggestions will help you care for the system so you can enjoy it for years.

Keep the system dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.

Use and store the system only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, and distort or melt plastic parts.

Handle the system gently and carefully. Dropping it can damage the circuit boards and can cause the system to work improperly.

Keep the system away from dust and dirt, which can cause premature wear of parts.

Wipe the system with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the system.

Modifying or tampering with the system's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your system is not performing as it should, take it to your local RadioShack store for assistance.

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CD CARE TIPS

Although a CD is very durable, you should handle it with care. We recommend the following precautions.

- Keep the CD in its protective case or sleeve when you are not playing it.
- Keep the CD clean. Your local RadioShack store sells suitable CD cleaner kits.
- Keep the CD dry. Even a single drop of moisture can act as a lens and affect the laser beam's focus. If the CD gets wet, wipe it with a soft, dry cloth before playing it.
- Do not write on either side of a CD, especially the non-label side.
- Handle the CD by its edge to avoid fingerprints and surface scratches that can prevent the laser from accurately reading the CD.
- Do not store CDs in high-temperature, high-humidity locations.
- Remove any loaded CD from the CD player before moving the System 741 to prevent damaging the CD.
- To repair scratches on the CD surface, use a CD scratch repair kit (such as "Scratch 'n Fix," Cat. No. 42-127).

CD PLAYER CARE TIPS

- To avoid damaging the CD player, do not place anything but a CD in the CD drawer.
- Moving the CD player suddenly from a cold place to a warmer one can cause moisture to form on the pickup lens and disrupt operation. If this happens, unplug the CD player then wait about one hour before plugging it back in and playing the CD.
- If the System 741 is subjected to a sudden shock or jolt during play, the CD's rotation speed might suddenly change, and the music might be briefly interrupted. This is not a malfunction.

TAPE TIPS

Erasing a Cassette Tape

To erase a previously recorded section of a tape, simply record over it. To erase the entire cassette tape, let the tape record to the end with no source playing.

You can quickly erase both sides of a cassette tape using a bulk tape eraser (such as Cat. No. 44-232, not supplied), available at your local RadioShack store.

Preventing Accidental Recording

Cassette tapes have two protection tabs — one for each side. To protect a recording from being accidentally recorded over, use a screwdriver to remove one or both of the cassette's protection tabs.

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Note: Removing the protection tabs does not prevent a bulk eraser from erasing a cassette tape.

If you want to record on a tape side after you have removed the protection tab, place a piece of strong plastic tape over that side's protection hole.

Be sure you cover only the hole originally covered by the protection tab.

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Restoring Tape Tension and Sound Quality

After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each side of the cassette's outer shell on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.

Cleaning the Tape-Handling Parts

Dirt, dust or particles of the tape's coating can accumulate on the tape deck's tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player.

Use the following cleaning procedure after every 20 hours of tape player operation.

1. Disconnect power.
2. Open the cassette compartment doors on TAPE 1 and TAPE 2.
3. Press **PLAY** on TAPE 1 and TAPE 2 to expose the tape-handling parts.
4. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the record and play heads, pinch roller, capstan, tape guides, and erase head.

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5. When you finish cleaning, press **STOP/EJECT** on TAPE 1 and TAPE 2 and close the cassette compartment doors, then reconnect power.

Your local RadioShack store sells a complete line of cassette deck cleaning supplies.

THE FCC WANTS YOU TO KNOW

This system complies with limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio or TV interference in a residential area. However, your system might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the system and the radio or TV
- Use outlets on different electrical circuits for the system and the radio or TV

If the problem continues, take your system to your local RadioShack store for assistance.

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SPECIFICATIONS

Cassette Player:

Tape Speed ..... $1\frac{7}{8}$ ips
Wow and Flutter (WRMS) 0.35%
Frequency Response (at –3 dB) ..... 100 Hz–8 kHz
Recording System ..... AC Bias
Erase System ..... Magnet

CD Player:

Number of Programmable Tracks 21
Tracks Frequency Response (at –3 dB) ..... 60 Hz–15 kHz
Dynamic Range ..... 70 dB
Signal-to-Noise Ratio (JIS-A) ..... 60 dB
Harmonic Distortion (at 1 kHz) 1%
Separation (at 1 kHz) ..... 40 dB
Sampling Frequency ..... 176.5 kHz
Quantization Number 1-Bit
Linear/Channel Oversampling ..... 4 Times
Pick-Up System ..... 3 Beam
Optical Source ..... Semiconductor Laser
Wavelength ..... 760–820 nm

General:

Microphone (Monaural) Impedance	600 ohms
Headphones (Stereo) Impedance	16–32 ohm
Power Output	4.5 Watts per Channel
Dimensions (HWD)	$12\frac{1}{8}$ ¥ $10\frac{5}{8}$ ¥ $9\frac{1}{4}$ Inches (308 ¥ 270 ¥ 235 mm)
Weight: (Main Unit)	10 lb (4.5 kg)
(Speakers)	3.15 lb (1.4 kg)
Power Supply	120V AC 60 Hz, 38W
Tuning Range	AM: 530–1710 kHz FM: 88–108 MHz
Graphic Frequency Equalizer	100 Hz ±10 dB 1 kHz ±10 dB 10 kHz ±10 dB
Speaker Size	5-Inch Speaker

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

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NOTES

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RadioShack Limited Warranty

This product is warranted against defects for 90 days from date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof of purchase date to any RadioShack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

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